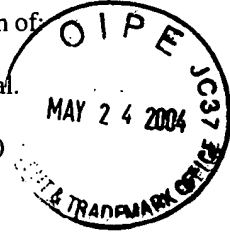


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application of)
 Applicant(s): Takeda et al.)
 Serial No.: 10/665,280)
 Conf No.: 5624)
 Filed: September 18, 2003)
 For: LIQUID CRYSTAL DISPLAY DEVICE)
 AND LIQUID CRYSTAL ORIENTATION)
 METHOD)
 Art Unit: 2871)
 Examiner: Not yet assigned)



I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

20 May 04
 Date

B. Joe Kim
 Attorney for Applicant(s)
 Registration No. 41,895

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. § 1.97(b) within either of the following time periods, whichever occurs last:

- (a) within three months of either the filing date of the national application or the date of entry into the national stage; or
- (b) before the mailing date of first office action on the merits (i.e., not including actions such as restriction requirements).

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

It is requested that the information disclosed on the enclosed Form PTO-1449 be made of record in this application.

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§ 1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

300 South Wacker Drive – Suite 2500
 Chicago, Illinois 60606
 Telephone: (312) 360-0080
 Facsimile: (312) 360-9315
 Customer Number 24978

By: *B. Joe Kim*
 B. Joe Kim
 Registration No. 41,895

Form PTO-1449 U.S. Department of Commerce
(Rev. 8-88) Patent and Trademark Office

Attorney Docket No.: 1117.68338

Serial No.: 10/665,280

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant: Takeda et al.

Filing Date: September 18, 2003

Group: 2871

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	2003/0202146	10/30/2003	Takeda et al.			04/25/2003
	2001/0006408	07/05/2001	Matsuyama et al.			12/20/2000
	2001/0048499	12/06/2001	Numano et al.			08/06/2001
	6,229,589	05/08/2001	Koma			09/29/1998
	6,710,837	03/23/2004	Song et al.			05/14/1999

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner	Date Considered
----------	-----------------

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.